

APR 16 2007

Remarks

This PRELIMINARY AMENDMENT is filed prior to examination of this application. Please enter this Amendment into the application.

The specification and Figures have been amended to correct an inadvertent error in Table 1 and Figure 1, respectively. Table 1 and Figure 1 are identical except for their numeration.

After filing the application, Applicants noted that the nucleotide sequence in Table 1 and Figure 1 showed, on the last line, the 7th codon from the left side, the codon ACT. The correct codon in this position is ATC.

Applicants herewith provide marked-up and clean copies of: (1) page 16 of the specification and (2) Figure 1, page 1 (Replacement sheet 1/23). Appendix 1 contains the marked-up copy of Table 1; Appendix 2 contains the clean copy of Table 1; Appendix 3 contains the marked-up copy of Figure 1, page 1; and Appendix 4 contains the clean copy of Figure 1, page 1 (Replacement sheet 1/23).

Support for these amendments is present in the application as filed. Specifically, on page 20, second full paragraph, second sentence as follows:

Recently, two new transcripts of the hGH-V gene have been described (Boguszewski 1998). ... The second transcript to be described uses a similar alternative splice site within exon 3, to that seen for hGH-N, to predict a 20kDa isoform of hGH-V (GenBank accession number: AF006060).

Applicants herewith provide marked-up and clean copies of the GenBank webpages (www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?val=AF006060.1) showing the correct sequence.

Appendix 5 is a marked-up copy of the above website. The marked-up copy on page 2 shows the proper nucleotide sequence (at positions 292-294; box). Appendix 6 is the clean copy of the above website. The clean copy does not have the codon so marked.

- 4 -

Attorney Docket No.: ERNZ-01082US3
ERNZ-01082US3/1082US3.107.Prelim.amd.wpd

No fees are due with this PRELIMINARY AMENDMENT. The Commissioner is hereby authorized to charge any deficiencies or credit overpayment to Deposit Account No. 50-4089.

Please note that the correspondence address for this application has changed. The new address is:

Customer No: 66936
Borson Law Group, PC
1320 Willow Pass Road, Suite 490
Concord, California 94520-5232
Tel: (925) 395-2060

Please note that the Attorneys associated with Customer No: 66936 are:

D. Benjamin Borson, Ph.D., Reg. 44,366. No: 42,349 and
J. Steven Svoboda, Reg. No: 44,366.

Respectfully submitted,

BORSON LAW GROUP, PC

Date: April 16, 2007

By: 

D. Benjamin Borson, Ph.D.
Reg. No.: 42,349

Customer No. 66936
BORSON LAW GROUP, PC
1320 Willow Pass Road, Suite 490
Concord, California 94520-5232
Tel: (925) 395-2060

- 5 -

Attorney Docket No.: ERNZ-01082US3
ERNZ-01082US3/1082US3.107.Prelim.amd.wpd

Appendix 1
Marked-up copy of Table 1

- 6 -

Attorney Docket No.: ERNZ-01082US3
ERNZ-01082US3/1082US3.107.Prelim.amd.wpd

SEQ ID NO:1	ATG	GCT	GCA	GGC	TCC	CGG	ACG	TCC	CTG	CTC	CTG	GCT	TTT	GGC	CTG	CTC	TCG
SEQ ID NO:2			ACA														
SEQ ID NO:3			GCA														
SEQ ID NO:4			ACA														
	CTG	TCC	TGG	CTT	CAA	GAG	GGC	AGT	GCC	TTC	CCA	ACC	ATT	CCC	TTA	TCC	AGG
		CCC															
		TCC															
		CCC															
	CTT	TTT	GAC	AAC	GCT	ATG	CTC	CGC	GCC	CGT	CGC	CTG	TAC	CAG	CTG	GCA	TAT
										CAT	CGT		CAC			GCC	TTT
										CGT	CGC		TAC			GCA	TAT
										CAT	CGT		CAC			GCC	TTT
	GAC	ACC	TAT	CAG	GAG	TTT	GAA	GAA	GCC	TAT	ATC	CTG	AAG	GAG	CAG	AAG	TAT
			TAC									CTA	GAA				
			TAT														
			TAC														
	TCA	TTC	CTG	CAG	AAC	CCC	CAG	ACC	TCC	CTC	TGC	TTC	TCA	GAG	TCT	ATT	CCA
											TGT						CCG
											TGC						CCA
											TGT						CCG
	ACA	CCT	TCC	AAC	AGG	GTG	AAA	ACG	CAG	CAG	AAA	TCT	AAC	CTA	GAG	CTG	CTC
		CCC				GAG	GAA	ACA	CAA			TCC					
		CCT				GTG	AAA	ACG	CAG			TCT					
		CCC				GAG	GAA	ACA	CAA			TCC					
	CGC	ATC	TCC	CTG	CTC	CTC	AGT	CAG	TCA	TGG	CTG	GAG	CCC	GTG	CAG	CTC	CTC
							ATC		TCG							TCT	
									TCA							CTC	
									TCG							TCT	

Table 1 Translated nucleotide sequence of hGH variants. Dashes indicate section deleted in 20 kDa hGH-V and 20 kDa hGH-. Underlined section indicates signal sequence.

Appendix 2
Clean copy of Table 1

- 7 -

Attorney Docket No.: ERNZ-01082US3
ERNZ-01082US3/1082US3.107.Prelim.amd.wpd

SEQ ID NO:1	ATG	GCT	GCA	GGC	TCC	CGG	ACG	TCC	CTG	CTC	CTG	GCT	TTT	GGC	CTG	CTC	TCG
SEQ ID NO:2			ACA														
SEQ ID NO:3			GCA														
SEQ ID NO:4			ACA														
	CTG	TCC	TGG	CTT	CAA	GAG	GGC	AGT	GCC	TTC	CCA	ACC	ATT	CCC	TTA	TCC	AGG
		CCC															
		TCC															
		CCC															
	CTT	TTT	GAC	AAC	GCT	ATG	CTC	CGC	GCC	CGT	CGC	CTG	TAC	CAG	CTG	GCA	TAT
										CAT	CGT		CAC			GCC	TTT
										CGT	CGC		TAC			GCA	TAT
										CAT	CGT		CAC			GCC	TTT
	GAC	ACC	TAT	CAG	GAG	TTT	GAA	GAA	GCC	TAT	ATC	CTG	AAG	GAG	CAG	AAG	TAT
			TAC									CTA	GAA				
			TAT														
			TAC														
	TCA	TTC	CTG	CAG	AAC	CCC	CAG	ACC	TCC	CTC	TGC	TTC	TCA	GAG	TCT	ATT	CCA
											TGT						CCG
											TGC						CCA
											TGT						CCG
	ACA	CCT	TCC	AAC	AGG	GTG	AAA	ACG	CAG	CAG	AAA	TCT	AAC	CTA	GAG	CTG	CTC
		CCC				GAG	GAA	ACA	CAA			TCC					
		CCT				GTG	AAA	ACG	CAG			TCT					
		CCC				GAG	GAA	ACA	CAA			TCC					
	CGC	ATC	TCC	CTG	CTG	CTC	ATC	CAG	TCA	TGG	CTG	GAG	CCC	GTG	CAG	CTC	CTC
									TCG							TCT	
									TCA							CTC	
									TCG							TCT	

Table 1 Translated nucleotide sequence of hGH variants. Dashes indicate section deleted in 20 kDa hGH-V and 20 kDa hGH-. Underlined section indicates signal sequence.

Appendix 3
Marked-up copy of Figure 1, page 1

- 8 -

Attorney Docket No.: ERNZ-01082US3
ERNZ-01082US3/1082US3.107.Prelim.amd.wpd

Marked-up Figure 1, page 1

SEQ ID NO:1	ATG	GCT	GCA	GGC	TCC	CGG	ACG	TCC	CTG	CTC	CTG	GCT	TTT	GGC	CTG	CTC	TCG
SEQ ID NO:2			ACA														
SEQ ID NO:3			GCA														
SEQ ID NO:4			ACA														
	CTG	TCC	TGG	CTT	CAA	GAG	GGC	AGT	GCC	TTC	CCA	ACC	ATT	CCC	TTA	TCC	AGG
		CCC															
		TCC															
		CCC															
	CTT	TTT	GAC	AAC	GCT	ATG	CTC	CGC	GCC	CGT	CGC	CTG	TAC	CAG	CTG	GCA	TAT
										CAT	CGT		CAC			GCC	TTT
										CGT	CGC		TAC			GCA	TAT
										CAT	CGT		CAC			GCC	TTT
	GAC	ACC	TAT	CAG	GAG	TTT	GAA	GAA	GCC	TAT	ATC	CTG	AAG	GAG	CAG	AAG	TAT
			TAC									CTA	GAA				
			TAT														
			TAC														
	TCA	TTC	CTG	CAG	AAC	CCC	CAG	ACC	TCC	CTC	TGC	TTC	TCA	GAG	TCT	ATT	CCA
											TGT						CCG
											TGC						CCA
											TGT						CCG
	ACA	CCT	TCC	AAC	AGG	GTG	AAA	ACG	CAG	CAG	AAA	TCT	AAC	CTA	GAG	CTG	CTC
		CCC				GAG	GAA	ACA	CAA			TCC					
		CCT				GTG	AAA	ACG	CAG			TCT					
		CCC				GAG	GAA	ACA	CAA			TCC					
	CGC	ATC	TCC	CTG	CTG	CTC	ACT	CAG	TCA	TGG	CTG	GAG	CCC	GTG	CAG	CTC	CTC
							ATC		TCG							TCT	
									TCA							CTC	
									TCG							TCT	

Figure 1 Translated nucleotide sequence of hGH variants. Dashes indicate section deleted in 20 kDa hGH-V and 20 kDa hGH-. Underlined section indicates signal sequence.

Appendix 4
Clean copy of Figure 1, page 1
Replacement Sheet 1/23

- 9 -

Attorney Docket No.: ERNZ-01082US3
ERNZ-01082US3/1082US3.107.Prelim.amd.wpd

Replacement Sheet 1/23



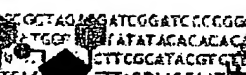



SEQ ID NO:1	<u>ATG</u>	<u>GCT</u>	<u>GCA</u>	<u>GGC</u>	<u>TCC</u>	<u>CGG</u>	<u>ACG</u>	<u>TCC</u>	<u>CTG</u>	<u>CTC</u>	<u>CTG</u>	<u>GGC</u>	<u>TTT</u>	<u>GCT</u>	<u>CTG</u>	<u>CTC</u>	<u>TCG</u>
SEQ ID NO:2			<u>ACA</u>														
SEQ ID NO:3			<u>GCA</u>														
SEQ ID NO:4			<u>ACA</u>														
	<u>CTG</u>	<u>TCC</u>	<u>TGG</u>	<u>CTT</u>	<u>CAA</u>	<u>GAG</u>	<u>GGC</u>	<u>AGT</u>	<u>GCC</u>	<u>TTC</u>	<u>CCA</u>	<u>ACC</u>	<u>ATT</u>	<u>CCC</u>	<u>TTA</u>	<u>TCC</u>	<u>AGG</u>
		<u>CCC</u>															
		<u>TCC</u>															
		<u>CCC</u>															
	<u>CIT</u>	<u>TTT</u>	<u>GAC</u>	<u>AAC</u>	<u>GCT</u>	<u>ATG</u>	<u>CTC</u>	<u>CGC</u>	<u>GCC</u>	<u>CGT</u>	<u>CGC</u>	<u>CTG</u>	<u>TAC</u>	<u>CAG</u>	<u>CTG</u>	<u>GCA</u>	<u>TAT</u>
										<u>CAT</u>	<u>CGT</u>		<u>CAC</u>			<u>GCC</u>	<u>TTT</u>
										<u>CGT</u>	<u>CGC</u>		<u>TAC</u>			<u>GCA</u>	<u>TAT</u>
										<u>CAT</u>	<u>CGT</u>		<u>CAC</u>			<u>GCC</u>	<u>TTT</u>
	<u>GAC</u>	<u>ACC</u>	<u>TAT</u>	<u>CAG</u>	<u>GAG</u>	<u>TTT</u>	<u>GAA</u>	<u>GAA</u>	<u>GCC</u>	<u>TAT</u>	<u>ATC</u>	<u>CTG</u>	<u>AAG</u>	<u>GAG</u>	<u>CAG</u>	<u>AAG</u>	<u>TAT</u>
			<u>TAC</u>									<u>CTA</u>	<u>GAA</u>				
			<u>TAT</u>														
			<u>TAC</u>														
	<u>TCA</u>	<u>TTC</u>	<u>CTG</u>	<u>CAG</u>	<u>AAC</u>	<u>CCC</u>	<u>CAG</u>	<u>ACC</u>	<u>TCC</u>	<u>CTC</u>	<u>TGC</u>	<u>TTC</u>	<u>TCA</u>	<u>GAG</u>	<u>TCT</u>	<u>ATT</u>	<u>CCA</u>
											<u>TGT</u>						<u>CCG</u>
											<u>TGC</u>						<u>CCA</u>
											<u>TGT</u>						<u>CCG</u>
	<u>ACA</u>	<u>OCT</u>	<u>TCC</u>	<u>AAC</u>	<u>AGG</u>	<u>GTG</u>	<u>AAA</u>	<u>ACG</u>	<u>CAG</u>	<u>CAG</u>	<u>AAA</u>	<u>TCT</u>	<u>AAC</u>	<u>CTA</u>	<u>GAG</u>	<u>CTG</u>	<u>CTC</u>
		<u>CCC</u>				<u>GAG</u>	<u>GAA</u>	<u>ACA</u>	<u>CAA</u>			<u>TCC</u>					
		<u>OCT</u>				<u>GTG</u>	<u>AAA</u>	<u>ACG</u>	<u>CAG</u>			<u>TCT</u>					
		<u>CCC</u>				<u>GAG</u>	<u>GAA</u>	<u>ACA</u>	<u>CAA</u>			<u>TCC</u>					
	<u>CGC</u>	<u>ATC</u>	<u>TCC</u>	<u>CTG</u>	<u>CTC</u>	<u>ATC</u>	<u>CAG</u>	<u>ATC</u>	<u>TCA</u>	<u>TGG</u>	<u>CTG</u>	<u>GAG</u>	<u>CCC</u>	<u>GTG</u>	<u>CAG</u>	<u>CTC</u>	<u>CTC</u>
									<u>TCG</u>							<u>TCT</u>	
									<u>TCA</u>							<u>CTC</u>	
									<u>TCG</u>							<u>TCT</u>	

Figure 1 Translated nucleotide sequence of hGH variants. Dashes indicate section deleted in 20 kDa hGH-V and 20 kDa hGH-. Underlined section indicates signal sequence.

Appendix 5
Marked-up copy of GenBank Website for Accession No: AF006060

- 10 -

Attorney Docket No.: ERNZ-01082US3
ERNZ-01082US3/1082US3.107.Prelim.amd.wpd

NCBI       My NCBI [Sign In] [Register]

Search for

Limits Preview/Index History Clipboard Details

Display Show Send to Hide: ☐ sequence ☐ all but gene, CDS and mRNA features

Range: from to ☐ Reverse complemented strand Features: ☐

1: AF006060. Reports Homo sapiens plac...[gi:2459881]

Links

Features Sequence

LOCUS AF006060 702 bp mRNA linear PRI 21-JUL-2000

DEFINITION Homo sapiens placental growth hormone 20kDa isoform (hGH-V) mRNA, complete cds.

ACCESSION AF006060

VERSION AF006060.1 GI:2459881

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 702)

AUTHORS Boguszewski, C.L., Svensson, P.A., Jansson, T., Clark, R., Carlsson, L.M. and Carlsson, B.

TITLE Cloning of two novel growth hormone transcripts expressed in human placenta

JOURNAL J. Clin. Endocrinol. Metab. 83 (8), 2878-2885 (1998)

PUBMED 9709963

REFERENCE 2 (bases 1 to 702)

AUTHORS Boguszewski, C.L., Svensson, P.-A., Clark, R., Carlsson, L.M.S. and Carlsson, B.

TITLE Direct Submission

JOURNAL Submitted (30-MAY-1997) RCEM - Internal Medicine, Sahlgrenska University Hospital, Bruna Straket, 16, Gothenburg S-41345, Sweden

FEATURES

source 1..702
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/chromosome="17"
/tissue_type="full-term placenta"

gene 1..702
/gene="hGH-V"

CDS 13..621
/gene="hGH-V"
/codon_start=1
/product="placental growth hormone 20kDa isoform"
/protein_id="AAB71828.1"
/db_xref="GI:2459882"
/translation="MAAGSRTSLLAFGLLCLSWLOEGSAFPTIPLSRLFDNAMLRAR
RLYQLAYDTYQEFNPQTSLCFSES IPTPSNRVKTQOKSNLELLRISLLLIQSWLEPVQ
LLRSVFPANSLVYGASDSNVYRHLKDLEEGIQTLNWRLEDGSFRTGQIFNQSYSKFDTK
SHNDALLKNYGLLYCFRKMDKDVETFLRIVQCRSVEGSCGF"

sig_peptide 13..90
/gene="hGH-V"

ORIGIN

1 cacctagcgg caatggctgc aggcctccgg acgtccctgc tcttggtttt tggcctgctc
61 tgcctgtcct ggcttcaaga gggcagtgc ttccaacca tcccttacc caggcttttt
121 gacaacgcta tgctccgcgc cgtcgctg taccagctgg catatgacac ctatcaggag

http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?val=AF006060.1

4/11/2007

181 ttttaacccc agacctccct ctgcttctca gagtctattc caacaccttc caacagggtg
241 aaaacgcagc agaaatctaa cctagagctg ctccgcatct ccctgctgct catcagtgca
301 tggctggagc ccgtgcagct cctcaggagc gtcttcgcca acagcctggt gfatggcgcc
361 tcggacagca acgtctatcg ccacctgaag gacctagagg aaggcatcca aacgctgatg
421 tggaggctgg aagatggcag cccccggact gggcagatct tcaatcagtc ctacagcaag
481 tttgacacaa aatcgacaaa cgatgacgca ctgctcaaga actacgggct gctctactgc
541 ttcaggaagg acatggacaa ggtcgagaca ttctgcgca tegtgcagtg ccgctctgtg
601 gagggcagct gtggcttcta gcccgggtgg catccctgtg acccctcccc actgcctctc
661 ctggctcgtg aagggtgctac tccagtgcgc ccgccgaat tc

//

Disclaimer | Write to the Help Desk
NCBI | NLM | NIH

Apr 9 2007 17:07:01

<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?val=AF006060.1>

4/11/2007

Appendix 6
Clean copy of GenBank Website for Accession No: AF006060

- 11 -

Attorney Docket No.: ERNZ-01082US3
ERNZ-01082US3/1082US3.107.Prelim.amd.wpd

NCBI Nucleotide

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

My NCBI (Sign In) (Register)

Search Nucleotide for

Limits Preview/Index History Clipboard Details

Display GenBank Show 5 Send to Hide: sequence all but gene, CDS and mRNA features

Range: from begin to end Reverse complemented strand Features: Refresh

1: AF006060. Reports Homo sapiens plac...[gi:2459881]

Links

Features Sequence

LOCUS AF006060 702 bp mRNA linear PRI 21-JUL-2000

DEFINITION Homo sapiens placental growth hormone 20kDa isoform (hGH-V) mRNA, complete cds.

ACCESSION AF006060

VERSION AF006060.1 GI:2459881

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 702)

AUTHORS Boguszewski,C.L., Svensson,P.A., Jansson,T., Clark,R., Carlsson,L.M. and Carlsson,B.

TITLE Cloning of two novel growth hormone transcripts expressed in human placenta

JOURNAL J. Clin. Endocrinol. Metab. 83 (8), 2878-2885 (1998)

PUBMED 9709963

REFERENCE 2 (bases 1 to 702)

AUTHORS Boguszewski,C.L., Svensson,P.-A., Clark,R., Carlsson,L.M.S. and Carlsson,B.

TITLE Direct Submission

JOURNAL Submitted (30-MAY-1997) RCEM - Internal Medicine, Sahlgrenska University Hospital, Bruna Straket, 16, Gothenburg S-41345, Sweden

FEATURES

source 1..702

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/chromosome="17"

/tissue_type="full-term placenta"

gene 1..702

/gene="hGH-V"

CDS 13..621

/gene="hGH-V"

/codon_start=1

/product="placental growth hormone 20kDa isoform"

/protein_id="AAB71828.1"

/db_xref="GI:2459882"

/translation="MAAGSRTSLLLAFLGLLCLSWLQEGSAFFTIPLSRLFDNMLRAR RLYQLAYDTYQEFNPQTSLCFSES IPTPSNRVKTOQKSNLELLRLISLLLIQSWLEPVQ LLRSVVFANSLVYGASDSNVYRHLKDLEGIQTLNWRLEDGSPRTGQIFNQSYSKFDTK SHNDALLKNYGLLYCFRKMDKXVETFLRIVQCRSVEGSCGF"

sig_peptide 13..90

/gene="hGH-V"

ORIGIN

1 cacctagcgg caatggctgc aggtcccg agtccctgc tctggtttt tggectgtc

61 tgectgtcct ggcttcaaga ggcagtgcc ttccaacca ttcccttate caggttttt

121 gacaacgcta tgctccgccc cgtcgctg taccagctgg catatgacac ctatcaggag

<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?val=AF006060.1>

4/11/2007

181 tttaaccccc agacctccct ctgcttctca gagtctattc caacaccttc caacagggtg
241 aaaacgcagc agaaatctaa cctagagctg ctccgcatct ccctgctgct catccagtca
301 tggctggagc ccgtgcagct cctcaggagc gtcttcgcca acagcctggt gtatggcgcc
361 tcggacagca acgtctatcg ccacctgaag gacctagagg aaggcatcca aacgctgatg
421 tggaggtgg aagatggcag cccccggact gggcagatct tcaatcagtc ctacagcaag
481 tttgacacaa aatcgacaa cgatgacgca ctgctcaaga actacgggct gctctactgc
541 ttcaggaagg acatggacaa ggtcgagaca ttctgcgca tcgtgcagtg ccgctctgtg
601 gagggcagct gtggcttcta gcccggtgg catccctgtg accctcccc actgcctctc
661 ctggctggtg aaggtgctac tccagtgcgc ccgcccgaat tc

//

Disclaimer | Write to the Help Desk
NCBI | NLM | NIH

Apr 9 2007 17:07:01

<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?val=AF006060.1>

4/11/2007